

## Assay Certificates



# Swastika Laboratories Ltd

Assaying - Consulting - Representation

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### Assay Certificate

**Certificate Number: 15-016**

Company: **Mistango River Resources**

Project: **Sackville**

Report Date: **12-Jan-15**

Attn: **Donald Kasner**

*We hereby certify* the following Assay of 49 core samples  
submitted 07-Jan-15 by Donald Kasner

Sample Number	Au	
	FA-MP g/Mt	Au Chk FA-MP g/Mt
18301	0.02	
18302	0.01	
18304	< 0.01	
18305	< 0.01	
18306	< 0.01	
18307	< 0.01	
18308	< 0.01	
18309	< 0.01	
18311	< 0.01	
18312	< 0.01	< 0.01
Blank Value	< 0.01	
OxH97	1.27	
18313	< 0.01	
18314	< 0.01	
18315	< 0.01	
18316	< 0.01	
18317	< 0.01	
18319	< 0.01	
18320	< 0.01	
18321	< 0.01	
18322	< 0.01	
18324	< 0.01	< 0.01
18325	< 0.01	
18326	0.01	
18327	< 0.01	

Certified by \_\_\_\_\_

**Jing Lin, M Sc.**

1 Cameron Ave., P.O. Box 10, Swastika, Ontario P0K 1T0  
Telephone (705) 642-3244 Fax (705) 642-3300



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**Certificate Number: 15-016**

Company: **Mistango River Resources**

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Report Date: **12-Jan-15**

Attn: **Donald Kasner**

*We hereby certify* the following Assay of 49 core samples  
submitted 07-Jan-15 by Donald Kasner

Sample Number	Au	Au Chk
	FA-MP g/Mt	FA-MP g/Mt
18328	< 0.01	
18329	< 0.01	
18331	< 0.01	
18332	< 0.01	
18333	< 0.01	
Blank Value	< 0.01	
OxH97	1.29	
18334	< 0.01	
18335	< 0.01	< 0.01
18336	0.01	
18337	0.01	
18338	< 0.01	
18341	< 0.01	
18342	< 0.01	
18344	< 0.01	
18345	< 0.01	
18346	< 0.01	
18347	< 0.01	
18348	< 0.01	0.01
18349	< 0.01	
18351	< 0.01	
18352	< 0.01	
18353	< 0.01	
18354	< 0.01	
18355	< 0.01	

Certified by \_\_\_\_\_  
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**Certificate Number: 15-016**

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Project: **Sackville**

Report Date: **12-Jan-15**

Attn: **Donald Kasner**

*We hereby certify* the following Assay of 49 core samples  
submitted 07-Jan-15 by Donald Kasner

Sample Number	Au	Au Chk
	FA-MP g/Mt	FA-MP g/Mt
18356	< 0.01	
18357	< 0.01	
Blank Value	< 0.01	
OxH97	1.25	
18358	< 0.01	

*Certified by* \_\_\_\_\_  
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## Assay Certificate

**Certificate Number: 15-017**

Company: **Mistango River Resources**  
Project: **Sackville**  
Attn: **Donald Kasner**

Report Date: 14-Jan-15

*We hereby certify* the following Assay of 51 core samples submitted 07-Jan-15 by Donald Kasner

Sample Number	Au	
	FA-MP g/Mt	Au Chk FA-MP g/Mt
18361	< 0.01	
18362	< 0.01	
18363	< 0.01	
18364	< 0.01	
18365	< 0.01	
18366	< 0.01	
18367	< 0.01	
18368	< 0.01	
18369	< 0.01	
18371	< 0.01	< 0.01
Blank Value	< 0.01	
OxH97	1.26	
18372	< 0.01	
18373	< 0.01	
18374	< 0.01	
18375	< 0.01	
18376	< 0.01	
18377	< 0.01	
18378	< 0.01	
18379	<b>1</b>	
18381	< 0.01	
18382	< 0.01	0.01
18383	< 0.01	
18384	< 0.01	
18385	< 0.01	

1. listed not received

Certified by \_\_\_\_\_

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## Assay Certificate

**Certificate Number: 15-017**

Company: **Mistango River Resources**

Project: **Sackville**

Report Date: **14-Jan-15**

Attn: **Donald Kasner**

*We hereby certify* the following Assay of 51 core samples  
submitted 07-Jan-15 by Donald Kasner

Sample Number	Au	Au Chk
	FA-MP g/Mt	FA-MP g/Mt
18386	< 0.01	
18387	< 0.01	
18388	< 0.01	
18389	< 0.01	
18391	< 0.01	
Blank Value	< 0.01	
OxH97	1.27	
18392	< 0.01	
18393	< 0.01	< 0.01
18394	< 0.01	
18395	< 0.01	
18396	< 0.01	
18397	< 0.01	
18398	< 0.01	
18401	< 0.01	
18402	< 0.01	
18403	< 0.01	
18404	< 0.01	
18405	< 0.01	< 0.01
18406	< 0.01	
18407	< 0.01	
18408	< 0.01	
18409	< 0.01	
18411	< 0.01	
18412	< 0.01	

1. listed not received

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Company: **Mistango River Resources**

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Report Date: **14-Jan-15**

Attn: **Donald Kasner**

*We hereby certify* the following Assay of 51 core samples  
submitted 07-Jan-15 by Donald Kasner

Sample Number	Au	Au Chk
	FA-MP g/Mt	FA-MP g/Mt
18413	< 0.01	
18414	< 0.01	
Blank Value	< 0.01	
OxH97	1.26	
18415	< 0.01	
18416	< 0.01	< 0.01
18417	< 0.01	

1. listed not received

*Certified by* \_\_\_\_\_

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## Assay Certificate

**Certificate Number: 15-018**

Company: **Mistango River Resources**

Project: **Sackville**

Report Date: **14-Jan-15**

Attn: **Donald Kasner**

*We hereby certify* the following Assay of 44 core samples  
submitted 07-Jan-15 by Donald Kasner

Sample Number	Au	Au Chk
	FA-MP g/Mt	FA-MP g/Mt
18418	< 0.01	
18421	< 0.01	
18422	< 0.01	
18423	< 0.01	
18424	< 0.01	
18425	< 0.01	
18426	< 0.01	
18427	< 0.01	
18428	< 0.01	
18429	< 0.01	< 0.01
Blank Value	< 0.01	
OxH97	1.25	
18431	< 0.01	
18432	< 0.01	
18433	< 0.01	
18434	< 0.01	
18435	< 0.01	
18436	< 0.01	
18437	< 0.01	
18438	< 0.01	
18441	< 0.01	
18442	< 0.01	< 0.01
18443	< 0.01	
18444	< 0.01	
18445	< 0.01	

*Certified by* \_\_\_\_\_

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# Swastika Laboratories Ltd

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## Assay Certificate

**Certificate Number: 15-018**

Company: **Mistango River Resources**

Project: **Sackville**

Report Date: **14-Jan-15**

Attn: **Donald Kasner**

*We hereby certify* the following Assay of 44 core samples  
submitted 07-Jan-15 by Donald Kasner

Sample Number	Au	Au Chk
	FA-MP g/Mt	FA-MP g/Mt
18446	< 0.01	
18447	< 0.01	
18448	< 0.01	
18449	< 0.01	
18451	< 0.01	
Blank Value	< 0.01	
OxH97	1.27	
18452	< 0.01	
18453	< 0.01	< 0.01
18454	< 0.01	
18455	< 0.01	
18456	< 0.01	
18457	< 0.01	
18458	< 0.01	
18461	< 0.01	
18462	< 0.01	
18463	< 0.01	
18464	< 0.01	
18465	< 0.01	< 0.01
18466	< 0.01	
18467	< 0.01	
18468	< 0.01	
18469	< 0.01	

*Certified by* \_\_\_\_\_

**Jing Lin, M Sc.**

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Telephone (705) 642-3244 Fax (705) 642-3300





# Swastika Laboratories Ltd

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## Assay Certificate

**Certificate Number: 15-019**

Company: **Mistango River Resources**

Project: **Sackville**

Report Date: **15-Jan-15**

Attn: **Donald Kasner**

*We hereby certify* the following Assay of 32 core samples  
submitted 07-Jan-15 by Donald Kasner

Sample Number	Au		Chk
	FA-MP g/Mt	FA-MP g/Mt	FA-MP g/Mt
18471	0.01		
18472	0.01		
18473	< 0.01		
18474	< 0.01		
18475	0.01		
18476	0.02		
18477	< 0.01		
18478	< 0.01		
18479	< 0.01		
18480	< 0.01	< 0.01	
Blank Value	< 0.01		
OxH97	1.27		
18482	0.01		
18483	< 0.01		
18484	< 0.01		
18485	< 0.01		
18486	0.01		
18487	< 0.01		
18488	< 0.01		
18489	0.01		
18492	< 0.01		
18493	< 0.01	< 0.01	
18494	< 0.01		
18495	< 0.01		
18496	0.01		

*Certified by* \_\_\_\_\_

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## Assay Certificate

**Certificate Number: 15-019**

Company: **Mistango River Resources**

Project: **Sackville**

Report Date: **15-Jan-15**

Attn: **Donald Kasner**

*We hereby certify* the following Assay of 32 core samples  
submitted 07-Jan-15 by Donald Kasner

Sample Number	Au		Chk
	FA-MP g/Mt	FA-MP g/Mt	FA-MP g/Mt
18497	< 0.01		
18498	< 0.01		
18499	< 0.01		
18500	< 0.01		
18502	< 0.01		
Blank Value	< 0.01		
OxH97	1.26		
18503	< 0.01		
18504	< 0.01	< 0.01	
18505	< 0.01		
18506	< 0.01		

*Certified by* \_\_\_\_\_

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# Swastika Laboratories Ltd

Assaying - Consulting - Representation

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## Assay Certificate

**Certificate Number: 15-073**

Company: **Mistango River Resources**

Project: **Sackville**

Report Date: **26-Jan-15**

Attn: **Donald Kasner**

*We hereby certify* the following Assay of 1 core samples  
submitted 07-Jan-15 by Donald Kasner

Sample Number	Au	Au Chk
	FA-MP	FA-MP
	g/Mt	g/Mt
18507	< 0.01	

*Certified by* \_\_\_\_\_  
**Jing Lin, M Sc.**

1 Cameron Ave., P.O. Box 10, Swastika, Ontario P0K 1T0  
Telephone (705) 642-3244 Fax (705) 642-3300



Date Submitted: 21-Jan-15  
Invoice No.: A15-00441  
Invoice Date: 03-Feb-15  
Your Reference: Mistango 15-017;016;073;018;019

Swastika Labs  
Box 10, 1 Cameron Ave.  
Swastika ON P0K 1T0  
Canada

ATTN: Jing Lin

## CERTIFICATE OF ANALYSIS

177 Pulp samples were submitted for analysis.

The following analytical package was requested: Code 1E3 Aqua Regia ICP(AQUAGEO)

REPORT A15-00441

This report may be reproduced without our consent. If only selected portions of the report are reproduced, permission must be obtained. If no instructions were given at time of sample submittal regarding excess material, it will be discarded within 90 days of this report. Our liability is limited solely to the analytical cost of these analyses. Test results are representative only of material submitted for analysis.

Notes:

Values which exceed the upper limit should be assayed for accurate numbers.

CERTIFIED BY:

A handwritten signature in black ink, appearing to read "Emmanuel Esemé".

Emmanuel Esemé, Ph.D.  
Quality Control

ACTIVATION LABORATORIES LTD.  
41 Bittern Street, Ancaster, Ontario, Canada, L9G 4V5  
TELEPHONE +905 648-9611 or +1.888.228.5227 FAX +1.905.648.9613  
E-MAIL Ancaster@actlabs.com ACTLABS GROUP WEBSITE www.actlabs.com



Results

Analyte Symbol	Th	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co	Cr	Fe	Ga	Hg	K	La
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm
Lower Limit	20	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1	1	0.01	10	1	0.01	10
Method Code	AR-JCP	AR-JCP	AR-JCP	AR-JCP	AR-JCP	AR-JCP	AR-JCP	AR-JCP	AR-JCP	AR-JCP	AR-JCP	AR-JCP	AR-JCP	AR-JCP	AR-JCP	AR-JCP	AR-JCP	AR-JCP	AR-JCP	AR-JCP	AR-JCP	AR-JCP	AR-JCP
18301	< 20	0.2	0.9	180	711	2	75	9	703	1.85	4	< 10	18	< 0.5	< 2	1.30	40	134	8.78	< 10	< 1	0.18	< 10
18302	< 20	0.3	3.1	155	203	5	140	12	1890	1.07	3	< 10	18	< 0.5	< 2	0.83	81	218	8.76	< 10	< 1	0.05	11
18304	< 20	< 0.2	< 0.5	92	479	< 1	589	5	82	1.87	3	< 10	27	< 0.5	< 2	1.11	87	817	5.91	< 10	< 1	0.12	< 10
18305	< 20	< 0.2	< 0.5	103	411	< 1	821	< 2	31	1.75	4	< 10	43	< 0.5	< 2	1.72	102	794	3.80	< 10	< 1	0.13	< 10
18306	< 20	< 0.2	< 0.5	105	478	< 1	784	< 2	33	2.02	58	< 10	29	< 0.5	< 2	1.92	88	603	3.82	< 10	< 1	0.10	< 10
18307	< 20	< 0.2	< 0.5	121	581	< 1	533	< 2	25	2.14	51	< 10	72	< 0.5	< 2	3.08	82	798	3.25	< 10	< 1	0.21	< 10
18308	< 20	< 0.2	< 0.5	86	483	< 1	84	< 2	27	2.08	3	< 10	52	< 0.5	< 2	2.59	23	212	2.07	< 10	< 1	0.16	< 10
18309	< 20	< 0.2	< 0.5	78	679	< 1	75	< 2	44	2.28	< 2	< 10	33	< 0.5	< 2	2.32	30	282	4.13	< 10	< 1	0.10	< 10
18311	< 20	< 0.2	< 0.5	54	800	< 1	81	< 2	34	1.93	< 2	< 10	38	< 0.5	< 2	3.05	25	319	3.41	< 10	< 1	0.12	< 10
18312	< 20	< 0.2	< 0.5	85	658	1	83	< 2	37	1.95	2	< 10	27	< 0.5	< 2	3.00	25	270	3.59	< 10	< 1	0.06	< 10
18313	< 20	< 0.2	< 0.5	75	816	< 1	83	< 2	34	1.88	< 2	< 10	39	< 0.5	< 2	2.28	24	283	3.35	< 10	< 1	0.10	< 10
18314	< 20	< 0.2	< 0.5	180	618	< 1	95	< 2	39	1.81	< 2	< 10	35	< 0.5	< 2	2.39	35	269	3.50	< 10	< 1	0.11	< 10
18315	< 20	< 0.2	< 0.5	125	730	< 1	102	< 2	42	2.54	< 2	< 10	57	< 0.5	< 2	3.41	34	329	3.88	< 10	< 1	0.16	< 10
18316	< 20	< 0.2	< 0.5	89	788	< 1	85	< 2	49	2.53	< 2	< 10	67	< 0.5	< 2	3.23	31	378	4.06	< 10	< 1	0.19	< 10
18317	< 20	< 0.2	< 0.5	335	788	< 1	129	< 2	128	2.49	< 2	< 10	27	< 0.5	< 2	2.82	48	383	5.67	< 10	< 1	0.06	< 10
18319	< 20	< 0.2	< 0.5	123	705	< 1	48	< 2	40	2.57	< 2	< 10	39	< 0.5	< 2	3.25	27	110	3.15	< 10	< 1	0.13	< 10
18320	< 20	< 0.2	< 0.5	143	777	< 1	82	< 2	47	2.73	8	< 10	33	< 0.5	< 2	3.87	33	170	3.58	< 10	< 1	0.08	< 10
18321	< 20	< 0.2	< 0.5	43	733	< 1	108	< 2	82	2.84	8	< 10	60	< 0.5	< 2	3.00	24	348	2.89	< 10	< 1	0.14	< 10
18322	< 20	< 0.2	< 0.5	42	887	< 1	90	< 2	51	1.86	5	< 10	46	< 0.5	< 2	4.90	19	327	2.43	< 10	< 1	0.12	< 10
18324	< 20	< 0.2	< 0.5	100	1420	< 1	87	< 2	117	2.53	11	< 10	47	< 0.5	< 2	7.18	37	107	4.88	< 10	< 1	0.14	< 10
18325	< 20	< 0.2	< 0.5	113	1390	< 1	82	< 2	128	2.44	15	< 10	51	< 0.5	< 2	4.90	44	117	5.44	< 10	< 1	0.21	< 10
18326	< 20	0.3	< 0.5	189	1430	2	80	7	111	1.79	14	< 10	27	< 0.5	< 2	9.08	40	103	4.74	< 10	< 1	0.14	< 10
18327	< 20	0.3	< 0.5	78	1150	3	119	5	201	1.35	118	< 10	42	< 0.5	< 2	5.18	38	143	2.85	< 10	< 1	0.17	11
18328	< 20	< 0.2	< 0.5	24	355	1	34	3	85	1.21	33	< 10	79	< 0.5	< 2	1.40	9	102	1.40	< 10	< 1	0.33	10
18329	< 20	< 0.2	< 0.5	72	889	< 1	83	< 2	57	2.40	5	< 10	77	< 0.5	< 2	2.17	27	188	3.19	< 10	< 1	0.18	< 10
18331	< 20	< 0.2	< 0.5	54	679	< 1	44	< 2	40	2.17	3	< 10	77	< 0.5	< 2	2.59	19	131	3.05	< 10	< 1	0.18	< 10
18332	< 20	< 0.2	< 0.5	53	882	< 1	56	< 2	48	2.32	4	< 10	49	< 0.5	< 2	2.32	27	125	3.77	< 10	< 1	0.14	< 10
18333	< 20	< 0.2	< 0.5	127	553	< 1	73	< 2	44	2.48	14	< 10	45	< 0.5	< 2	2.58	29	128	3.43	< 10	< 1	0.13	< 10
18334	< 20	< 0.2	< 0.5	78	889	< 1	88	< 2	48	2.40	5	< 10	43	< 0.5	< 2	2.89	29	179	3.57	< 10	< 1	0.15	< 10
18335	< 20	0.4	< 0.5	88	679	2	83	11	273	1.25	150	< 10	44	< 0.5	< 2	3.15	23	104	2.54	< 10	< 1	0.28	14
18338	< 20	0.4	< 0.5	108	402	2	101	12	400	1.81	78	< 10	44	< 0.5	< 2	0.70	30	121	3.18	< 10	< 1	0.39	14
18337	< 20	< 0.2	< 0.5	58	503	2	39	6	140	1.11	17	< 10	59	< 0.5	< 2	2.20	12	88	1.97	< 10	< 1	0.38	< 10
18338	< 20	< 0.2	< 0.5	28	283	< 1	16	5	114	1.24	2	< 10	119	< 0.5	< 2	1.03	5	92	0.91	< 10	< 1	0.49	12
18341	< 20	< 0.2	< 0.5	40	284	3	32	8	184	1.27	8	< 10	72	< 0.5	< 2	0.79	9	113	1.30	< 10	< 1	0.44	13
18342	< 20	< 0.2	< 0.5	49	739	2	81	4	169	1.81	8	< 10	67	< 0.5	< 2	3.55	16	111	1.85	< 10	< 1	0.46	13
18344	< 20	< 0.2	< 0.5	77	827	1	86	3	138	2.69	7	< 10	148	< 0.5	< 2	2.44	25	178	3.43	< 10	< 1	1.10	< 10
18345	< 20	< 0.2	< 0.5	109	788	< 1	58	< 2	56	2.95	5	< 10	94	< 0.5	< 2	2.88	34	142	3.70	< 10	< 1	0.27	< 10
18346	< 20	< 0.2	< 0.5	82	587	< 1	50	< 2	38	1.79	< 2	< 10	38	< 0.5	< 2	2.23	22	84	2.90	< 10	< 1	0.13	< 10
18347	< 20	< 0.2	< 0.5	174	790	< 1	50	< 2	70	3.07	3	< 10	85	< 0.5	< 2	3.87	35	85	3.49	< 10	< 1	0.14	< 10
18348	< 20	< 0.2	< 0.5	300	1030	< 1	48	< 2	82	3.47	8	< 10	67	< 0.5	< 2	4.12	42	71	5.37	10	< 1	0.15	< 10
18349	< 20	0.2	< 0.5	190	2200	< 1	41	2	83	2.58	3	< 10	30	< 0.5	< 2	9.29	42	50	6.48	< 10	< 1	0.08	< 10
18351	< 20	< 0.2	< 0.5	171	1080	< 1	49	< 2	75	3.24	8	< 10	83	< 0.5	< 2	3.88	41	74	4.88	10	< 1	0.14	< 10
18352	< 20	< 0.2	< 0.5	127	939	< 1	44	< 2	82	2.40	11	< 10	44	< 0.5	< 2	3.84	35	80	3.83	< 10	< 1	0.10	< 10
18353	< 20	< 0.2	< 0.5	125	862	< 1	45	< 2	87	3.08	11	< 10	45	< 0.5	< 2	3.88	37	87	4.00	< 10	< 1	0.12	< 10
18354	< 20	2.6	2.1	1120	745	108	188	118	338	1.89	179	14	34	8.9	32	2.17	37	85	4.58	20	5	0.47	29
18355	< 20	< 0.2	< 0.5	118	784	1	45	< 2	85	2.48	9	< 10	39	< 0.5	< 2	2.58	35	89	3.47	< 10	< 1	0.11	< 10
18356	< 20	< 0.2	< 0.5	198	798	< 1	52	< 2	81	2.67	4	< 10	41	< 0.5	< 2	2.59	38	83	3.68	< 10	< 1	0.12	< 10
18357	< 20	< 0.2	< 0.5	183	985	< 1	80	< 2	107	3.16	5	< 10	30	< 0.5	< 2	3.98	42	115	4.83	10	< 1	0.09	< 10
18358	< 20	< 0.2	< 0.5	126	607	< 1	49	< 2	110	1.71	16	< 10	30	< 0.5	< 2	2.43	42	81	2.90	< 10	< 1	0.08	< 10

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Analyte Symbol	Th	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co	Cr	Fe	Ga	Hg	K	La
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm
Lower Limit	20	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1	1	0.01	10	1	0.01	10
Method Code	AR-JCP	AR-JCP	AR-JCP	AR-JCP	AR-JCP	AR-JCP	AR-JCP	AR-JCP	AR-JCP	AR-JCP	AR-JCP	AR-JCP	AR-JCP	AR-JCP	AR-JCP	AR-JCP	AR-JCP	AR-JCP	AR-JCP	AR-JCP	AR-JCP	AR-JCP	AR-JCP
18361	< 20	< 0.2	< 0.5	168	655	< 1	44	< 2	86	1.74	3	< 10	40	< 0.5	< 2	1.81	41	69	3.26	< 10	< 1	0.09	< 10
18362	< 20	< 0.2	< 0.5	122	737	< 1	48	< 2	82	2.04	9	< 10	52	< 0.5	< 2	2.74	40	68	3.25	< 10	< 1	0.13	< 10
18363	< 20	< 0.2	< 0.5	149	828	< 1	53	< 2	68	1.72	8	< 10	83	< 0.5	< 2	2.50	41	89	2.88	< 10	< 1	0.11	< 10
18364	< 20	< 0.2	< 0.5	71	900	< 1	50	< 2	82	2.57	14	< 10	84	< 0.5	< 2	3.70	32	137	3.46	< 10	< 1	0.15	< 10
18365	< 20	< 0.2	< 0.5	184	1240	< 1	52	< 2	87	3.05	4	< 10	48	< 0.5	< 2	4.90	38	118	5.11	< 10	< 1	0.14	< 10
18366	< 20	< 0.2	< 0.5	84	567	< 1	172	< 2	39	2.75	11	< 10	76	< 0.5	< 2	2.41	33	396	3.36	< 10	< 1	0.20	< 10
18367	< 20	< 0.2	< 0.5	85	878	< 1	138	< 2	41	3.51	2	< 10	83	< 0.5	< 2	3.61	30	172	3.42	< 10	< 1	0.28	< 10
18368	< 20	2.7	2.2	1150	747	109	188	119	338	1.91	179	14	35	7.0	32	2.16	37	85	4.59	20	5	0.48	29
18369	< 20	< 0.2	< 0.5	164	762	3	65	< 2	32	2.70	21	< 10	70	< 0.5	< 2	4.15	27	117	3.73	< 10	< 1	0.19	< 10
18371	< 20	< 0.2	< 0.5	56	643	< 1	73	< 2	24	2.33	< 2	< 10	64	< 0.5	< 2	4.29	19	176	2.26	< 10	< 1	0.16	< 10
18372	< 20	< 0.2	< 0.5	49	535	1	82	< 2	23	2.85	12	< 10	77	< 0.5	< 2	3.84	18	119	2.21	< 10	< 1	0.20	< 10
18373	< 20	< 0.2	< 0.5	73	890	1	83	< 2	38	2.27	14	< 10	81	< 0.5	< 2	3.72	24	251	3.23	< 10	< 1	0.15	< 10
18374	< 20	< 0.2	< 0.5	20	718	< 1	40	< 2	53	2.34	6	< 10	157	< 0.5	< 2	2.35	20	154	3.17	< 10	< 1	0.22	< 10
18375	< 20	< 0.2	< 0.5	116	749	< 1	56	< 2	51	2.71	3	< 10	53	< 0.5	< 2	3.13	38	102	3.81	< 10	< 1	0.14	< 10
18376	< 20	< 0.2	< 0.5	134	720	< 1	49	< 2	53	2.36	< 2	< 10	54	< 0.5	< 2	2.79	38	83	3.99	< 10	< 1	0.13	< 10
18377	< 20	< 0.2	< 0.5	217	746	< 1	47	< 2	52	2.72	3	< 10	54	< 0.5	< 2	3.13	38	82	4.28	< 10	< 1	0.14	< 10
18378	< 20	< 0.2	< 0.5	137	989	1	82	< 2	76	3.13	6	< 10	70	< 0.5	< 2	4.02	41	104	4.39	10	< 1	0.18	< 10
18381	< 20	< 0.2	< 0.5	157	1030	< 1	54	< 2	80	2.91	4	< 10	71	< 0.5	< 2	3.50	38	102	4.76	10	< 1	0.17	< 10
18382	< 20	< 0.2	< 0.5	101	1070	< 1	44	< 2	65	2.64	< 2	< 10	83	< 0.5	< 2	3.17	31	88	4.89	10	< 1	0.17	< 10
18383	< 20	< 0.2	< 0.5	151	1050	2	48	< 2	87	2.88	4	< 10	51	< 0.5	< 2	2.42	39	99	4.95	10	< 1	0.12	< 10
18384	< 20	< 0.2	< 0.5	84	1290	< 1	49	< 2	45	3.23	4	< 10	30	< 0.5	< 2	4.81	33	117	5.53	10	< 1	0.05	< 10
18385	< 20	< 0.2	< 0.5	86	1220	< 1	57	9	100	3.53	5	< 10	22	< 0.5	< 2	3.18	38	111	5.64	10	< 1	0.08	< 10
18386	< 20	< 0.2	< 0.5	122	902	< 1	56	2	39	2.99	3	< 10	36	< 0.5	< 2	3.12	43	111	4.34	10	< 1	0.09	< 10
18387	< 20	< 0.2	< 0.5	162	932	< 1	45	< 2	88	2.08	2	< 10	36	< 0.5	< 2	2.77	35	85	4.17	< 10	< 1	0.10	< 10
18388	< 20	< 0.2	< 0.5	115	856	< 1	49	< 2	56	2.98	4	< 10	88	< 0.5	< 2	3.37	33	101	3.93	< 10	< 1	0.17	< 10
18389	< 20	< 0.2	< 0.5	151	826	< 1	43	< 2	89	2.81	< 2	< 10	119	< 0.5	< 2	2.52	32	105	4.18	10	< 1	0.28	< 10
18391	< 20	< 0.2	< 0.5	59	930	< 1	25	< 2	49	1.99	< 2	< 10	73	< 0.5	< 2	4.34	17	88	3.52	10	< 1	0.15	< 10
18392	< 20	< 0.2	< 0.5	83	1050	< 1	42	< 2	82	3.01	< 2	< 10	58	< 0.5	< 2	3.78	28	118	4.89	10	< 1	0.17	< 10
18393	< 20	< 0.2	< 0.5	93	981	< 1	44	< 2	65	2.73	< 2	< 10	53	< 0.5	< 2	3.88	31	116	4.46	10	< 1	0.16	< 10
18394	< 20	< 0.2	< 0.5	78	1150	< 1	53	< 2	71	3.04	4	< 10	80	< 0.5	< 2	3.08	35	148	5.64	10	< 1	0.14	< 10
18395	< 20	< 0.2	< 0.5	105	951	< 1	48	< 2	88	2.83	3	< 10	75	< 0.5	< 2	3.58	31	128	4.46	< 10	< 1	0.15	< 10
18396	< 20	< 0.2	< 0.5	119	894	1	58	< 2	88	2.44	4	< 10	74	< 0.5	< 2	3.10	40	109	4.73	< 10	< 1	0.17	< 10
18397	< 20	< 0.2	< 0.5	119	898	< 1	50	< 2	107	2.58	2	< 10	44	< 0.5	< 2	2.67	45	51	5.29	< 10	< 1	0.11	< 10
18398	< 20	< 0.2	< 0.5	129	887	< 1	53	< 2	105	2.74	< 2	< 10	40	< 0.5	< 2	3.22	38	94	4.76	< 10	< 1	0.10	< 10
18401	< 20	< 0.2	< 0.5	176	771	< 1	55	< 2	98	3.20	3	< 10	39	< 0.5	< 2	3.86	39	94	4.56	< 10	< 1	0.09	< 10
18402	< 20	< 0.2	< 0.5	108	718	< 1	42	< 2	94	3.20	2	< 10	38	< 0.5	< 2	2.90	38	45	4.59	< 10	< 1	0.10	< 10
18403	< 20	< 0.2	< 0.5	82	855	< 1	55	< 2	59	2.95	7	< 10	80	< 0.5	< 2	3.27	34	122	3.49	< 10	< 1	0.10	< 10
18404	< 20	< 0.2	< 0.5	97	866	< 1	45	< 2	81	3.06	4	< 10	94	< 0.5	< 2	3.07	44	86	5.12	10	< 1	0.40	< 10
18405	< 20	< 0.2	< 0.5	110	920	< 1	41	< 2	103	3.58	3	< 10	59	< 0.5	< 2	3.11	50	49	5.37	10	< 1	1.02	< 10
18406	< 20	< 0.2	< 0.5	95	1090	< 1	40	< 2	109	3.74	4	< 10	55	< 0.5	< 2	3.71	49	40	5.85	10	< 1	0.83	< 10
18407	< 20	< 0.2	< 0.5	142	958	< 1	40	< 2	99	3.84	< 2	< 10	58	< 0.5	< 2	2.78	47	48	5.84	10	< 1	1.16	< 10
18408	< 20	< 0.2	< 0.5	117	785	< 1	56	< 2	89	3.11	3	< 10	133	< 0.5	< 2	3.89	48	65	4.54	< 10	< 1	0.48	< 10
18409	< 20	< 0.2	< 0.5	149	572	1	52	< 2	76	2.67	6	< 10	89	< 0.5	< 2	2.66	43	72	3.89	< 10	< 1	0.15	< 10
18411	< 20	< 0.2	< 0.5	87	729	< 1	42	< 2	88	2.53	16	< 10	87	< 0.5	< 2	4.07	31	125	3.05	< 10	< 1	0.10	< 10
18412	< 20	0.2	< 0.5	480	905	< 1	65	3	219	3.26	3	< 10	23	< 0.5	< 2	3.45	47	80	6.97	10	< 1	0.13	< 10
18413	< 20	< 0.2	< 0.5	214	888	< 1	46	< 2	89	3.24	3	< 10	74	< 0.5	< 2	3.51	36	83	5.05	< 10	< 1	0.16	< 10
18414	< 20	< 0.2	< 0.5	198	868	< 1	54	< 2	106	3.51	3	< 10	108	< 0.5	< 2	3.83	40	99	4.43	< 10	< 1	0.16	< 10
18415	< 20	< 0.2	< 0.5	198	858	< 1	48	< 2	72	3.72	< 2	< 10	118	< 0.5	< 2	3.73	35	87	4.54	10	< 1	0.16	< 10
18416	< 20	< 0.2	< 0.5	182	998	< 1	54	< 2	61	3.58	2	< 10	87	< 0.5	< 2	3.87	38	116	4.52	< 10	< 1	0.14	< 10
18417	< 20	< 0.2	< 0.5	106	1030	< 1	57	< 2	59	2.97	9	< 10	87	< 0.5	< 2	3.92	40	155	4.30	< 10	< 1	0.11	< 10

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Analyte Symbol	Th	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co	Cr	Fe	Ga	Hg	K	La
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm
Lower Limit	20	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1	1	0.01	10	1	0.01	10
Method Code	AR-JCP	AR-JCP	AR-JCP	AR-JCP	AR-JCP	AR-JCP	AR-JCP	AR-JCP	AR-JCP	AR-JCP	AR-JCP	AR-JCP	AR-JCP	AR-JCP	AR-JCP	AR-JCP	AR-JCP	AR-JCP	AR-JCP	AR-JCP	AR-JCP	AR-JCP	AR-JCP
18418	< 20	< 0.2	< 0.5	73	605	< 1	38	< 2	80	1.84	8	< 10	83	< 0.5	< 2	1.73	37	85	3.37	< 10	< 1	0.09	< 10
18421	< 20	< 0.2	< 0.5	109	627	< 1	38	< 2	109	2.00	4	< 10	70	< 0.5	< 2	2.08	39	37	3.58	< 10	< 1	0.09	< 10
18422	< 20	< 0.2	< 0.5	187	717	< 1	46	< 2	83	2.53	< 2	< 10	89	< 0.5	< 2	3.17	34	79	3.64	< 10	< 1	0.13	< 10
18423	< 20	< 0.2	< 0.5	72	754	< 1	39	< 2	65	3.32	4	< 10	65	< 0.5	< 2	3.72	24	95	3.48	< 10	< 1	0.18	< 10
18424	< 20	< 0.2	< 0.5	253	1490	1	38	< 2	146	3.88	4	< 10	55	< 0.5	< 2	4.33	32	65	7.80	< 10	< 1	0.15	< 10
18425	< 20	< 0.2	< 0.5	93	1530	< 1	32	< 2	94	3.88	< 2	< 10	88	< 0.5	< 2	5.52	28	43	6.52	10	< 1	0.20	< 10
18426	< 20	< 0.2	< 0.5	146	1000	< 1	41	< 2	71	3.58	< 2	< 10	49	< 0.5	< 2	4.04	36	51	4.29	10	< 1	0.14	< 10
18427	< 20	< 0.2	< 0.5	146	786	< 1	35	< 2	122	3.48	2	< 10	62	< 0.5	< 2	3.32	41	38	3.80	10	< 1	0.17	< 10
18428	< 20	< 0.2	< 0.5	177	643	< 1	50	< 2	138	2.66	< 2	385	49	< 0.5	< 2	3.54	35	57	2.67	< 10	< 1	0.14	< 10
18429	< 20	< 0.2	< 0.5	147	692	< 1	53	< 2	105	2.92	5	15	48	< 0.5	< 2	3.51	35	82	2.78	< 10	< 1	0.16	< 10
18431	< 20	< 0.2	< 0.5	141	1020	< 1	48	< 2	99	3.40	6	20	87	< 0.5	< 2	3.78	35	120	4.41	< 10	< 1	0.15	< 10
18432	< 20	< 0.2	< 0.5	99	844	< 1	51	< 2	48	2.15	6	< 10	40	< 0.5	< 2	3.75	29	152	3.00	< 10	< 1	0.07	< 10
18433	< 20	< 0.2	< 0.5	93	623	< 1	40	< 2	45	2.18	5	< 10	42	< 0.5	< 2	3.04	25	125	2.36	< 10	< 1	0.07	< 10
18434	< 20	< 0.2	< 0.5	63	622	< 1	37	< 2	47	2.89	8	< 10	58	< 0.5	< 2	3.18	24	134	2.45	< 10	< 1	0.10	< 10
18435	< 20	< 0.2	< 0.5	170	881	< 1	52	< 2	81	2.64	7	< 10	53	< 0.5	< 2	3.46	34	188	3.82	< 10	< 1	0.08	< 10
18436	< 20	< 0.2	< 0.5	91	987	< 1	56	< 2	77	2.77	6	< 10	50	< 0.5	< 2	3.66	32	192	4.05	< 10	< 1	0.08	< 10
18437	< 20	< 0.2	< 0.5	105	975	1	57	< 2	56	2.35	6	< 10	40	< 0.5	< 2	3.65	33	183	3.80	< 10	< 1	0.07	< 10
18438	< 20	< 0.2	< 0.5	142	1020	< 1	53	< 2	70	2.93	3	< 10	57	< 0.5	< 2	3.74	29	211	5.29	< 10	< 1	0.11	< 10
18441	< 20	< 0.2	< 0.5	118	823	< 1	51	< 2	44	3.00	15	< 10	119	< 0.5	< 2	4.04	32	188	3.27	< 10	< 1	0.08	< 10
18442	< 20	< 0.2	< 0.5	141	907	< 1	49	< 2	83	3.13	7	< 10	98	< 0.5	< 2	3.80	30	191	4.39	< 10	< 1	0.11	< 10
18443	< 20	< 0.2	< 0.5	178	752	1	49	< 2	38	3.22	21	< 10	99	< 0.5	< 2	4.18	31	146	2.89	< 10	< 1	0.09	< 10
18444	< 20	< 0.2	< 0.5	166	1020	1	49	< 2	66	3.71	19	< 10	119	< 0.5	< 2	4.21	39	103	4.41	< 10	< 1	0.16	< 10
18445	< 20	< 0.2	< 0.5	84	1180	1	39	< 2	76	3.16	10	< 10	83	< 0.5	< 2	3.70	31	80	4.78	< 10	< 1	0.10	< 10
18446	< 20	< 0.2	< 0.5	128	1110	< 1	41	< 2	55	2.85	4	< 10	40	< 0.5	< 2	4.00	30	65	4.10	< 10	< 1	0.07	< 10
18447	< 20	< 0.2	< 0.5	105	1050	< 1	34	< 2	52	2.59	17	< 10	70	< 0.5	< 2	3.82	30	73	3.66	< 10	< 1	0.08	< 10
18448	< 20	< 0.2	< 0.5	242	1150	< 1	43	< 2	118	3.18	15	< 10	65	< 0.5	< 2	4.19	37	74	5.04	< 10	< 1	0.09	< 10
18449	< 20	< 0.2	< 0.5	142	603	< 1	38	< 2	55	3.51	22	< 10	141	< 0.5	< 2	3.28	35	82	2.70	< 10	< 1	0.16	< 10
18451	< 20	< 0.2	< 0.5	119	593	< 1	53	< 2	88	3.63	5	< 10	85	< 0.5	< 2	3.29	37	65	3.17	< 10	< 1	0.20	< 10
18452	< 20	0.3	< 0.5	199	770	< 1	81	8	117	3.13	2	< 10	28	< 0.5	< 2	1.70	47	105	7.14	10	< 1	0.21	< 10
18453	< 20	0.3	0.7	206	742	< 1	79	9	424	2.82	< 2	< 10	36	< 0.5	< 2	3.25	57	128	6.94	10	< 1	0.13	< 10
18454	< 20	0.4	< 0.5	444	809	< 1	82	11	144	2.84	< 2	< 10	15	< 0.5	< 2	1.99	86	145	9.23	10	< 1	0.14	< 10
18455	< 20	< 0.2	< 0.5	138	572	< 1	80	8	152	3.33	2	< 10	33	< 0.5	< 2	1.67	51	91	6.10	10	< 1	0.21	< 10
18456	< 20	< 0.2	< 0.5	136	692	< 1	58	4	162	3.10	< 2	< 10	24	< 0.5	< 2	1.71	48	111	8.90	10	< 1	0.17	< 10
18457	< 20	< 0.2	< 0.5	148	562	< 1	81	2	103	3.01	2	< 10	26	< 0.5	< 2	1.98	50	91	5.67	< 10	< 1	0.12	< 10
18458	< 20	< 0.2	< 0.5	154	611	1	83	< 2	74	2.67	2	< 10	31	< 0.5	< 2	1.74	56	79	5.72	< 10	< 1	0.12	< 10
18461	< 20	< 0.2	< 0.5	128	741	< 1	53	< 2	85	2.82	4	< 10	74	< 0.5	< 2	2.12	48	94	5.18	< 10	< 1	0.16	< 10
18462	< 20	< 0.2	< 0.5	129	786	< 1	42	< 2	80	2.76	3	< 10	60	< 0.5	< 2	2.85	41	87	4.81	< 10	< 1	0.13	< 10
18463	< 20	< 0.2	< 0.5	90	773	< 1	36	< 2	50	2.64	3	< 10	78	< 0.5	< 2	2.91	34	52	4.04	< 10	< 1	0.15	< 10
18464	< 20	< 0.2	< 0.5	146	818	< 1	52	< 2	83	2.88	11	< 10	67	< 0.5	< 2	3.15	42	121	4.70	< 10	< 1	0.13	< 10
18465	< 20	< 0.2	< 0.5	164	682	< 1	51	< 2	86	2.26	3	< 10	67	< 0.5	< 2	2.38	46	81	4.50	< 10	< 1	0.14	< 10
18466	< 20	< 0.2	< 0.5	107	574	< 1	38	< 2	50	2.28	4	< 10	61	< 0.5	< 2	1.71	36	58	3.67	< 10	< 1	0.10	< 10
18467	< 20	< 0.2	< 0.5	100	537	< 1	44	< 2	72	3.77	3	< 10	79	< 0.5	< 2	2.16	40	49	4.30	10	< 1	0.16	< 10
18468	< 20	< 0.2	< 0.5	150	681	< 1	56	2	113	2.81	< 2	< 10	31	< 0.5	< 2	1.41	50	83	8.75	< 10	< 1	0.12	< 10
18469	< 20	< 0.2	< 0.5	118	614	< 1	58	< 2	106	2.84	< 2	< 10	43	< 0.5	< 2	1.31	49	86	5.89	< 10	< 1	0.18	< 10
18471	< 20	0.2	< 0.5	146	640	< 1	77	4	98	2.28	< 2	< 10	32	< 0.5	< 2	1.28	53	133	8.38	< 10	< 1	0.18	< 10
18472	< 20	< 0.2	< 0.5	227	757	< 1	44	< 2	70	3.24	< 2	< 10	30	< 0.5	< 2	2.84	36	60	5.08	10	< 1	0.09	< 10
18473	< 20	< 0.2	< 0.5	123	743	< 1	33	< 2	52	3.23	4	< 10	47	< 0.5	< 2	3.08	28	60	3.90	< 10	< 1	0.10	< 10
18474	< 20	< 0.2	< 0.5	155	807	< 1	50	< 2	128	2.92	4	< 10	44	< 0.5	< 2	2.72	40	71	5.18	< 10	< 1	0.10	< 10
18475	< 20	< 0.2	2.0	126	718	2	143	4	1020	2.22	36	< 10	34	< 0.5	< 2	3.14	45	276	5.09	< 10	< 1	0.13	< 10
18476	< 20	0.6	< 0.5	192	877	1	108	7	279	2.59	10	< 10	14	< 0.5	< 2	2.53	48	141	10.00	< 10	< 1	0.19	< 10

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Analyte Symbol	Th	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co	Cr	Fe	Ga	Hg	K	La
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm
Lower Limit	20	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1	1	0.01	10	1	0.01	10
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
18477	< 20	< 0.2	< 0.5	107	701	< 1	43	< 2	45	2.87	8	< 10	87	< 0.5	< 2	3.73	27	139	3.41	< 10	< 1	0.13	< 10
18478	< 20	< 0.2	< 0.5	108	510	1	37	< 2	35	2.86	28	< 10	48	< 0.5	< 2	2.98	28	123	2.37	< 10	< 1	0.11	< 10
18479	< 20	< 0.2	< 0.5	123	808	< 1	43	< 2	36	2.85	9	< 10	45	< 0.5	< 2	3.43	25	141	2.59	< 10	< 1	0.11	< 10
18480	< 20	< 0.2	< 0.5	90	646	< 1	48	< 2	38	2.80	5	< 10	38	< 0.5	< 2	3.87	25	147	2.70	< 10	< 1	0.10	< 10
18482	< 20	< 0.2	< 0.5	125	808	< 1	38	< 2	32	2.41	3	< 10	29	< 0.5	< 2	3.49	20	127	2.62	< 10	< 1	0.08	< 10
18483	< 20	< 0.2	< 0.5	82	880	< 1	42	< 2	73	3.85	8	< 10	48	< 0.5	< 2	4.81	28	87	4.01	< 10	< 1	0.14	< 10
18484	< 20	< 0.2	< 0.5	123	937	< 1	47	< 2	67	3.73	4	< 10	83	< 0.5	< 2	4.40	34	82	4.49	< 10	< 1	0.22	< 10
18485	< 20	< 0.2	< 0.5	85	905	< 1	49	< 2	89	3.42	5	< 10	51	< 0.5	< 2	4.14	32	135	3.74	< 10	< 1	0.14	< 10
18489	< 20	< 0.2	< 0.5	161	837	1	51	< 2	90	3.56	3	< 10	77	< 0.5	< 2	3.39	44	82	5.11	< 10	< 1	0.17	< 10
18487	< 20	< 0.2	< 0.5	148	893	< 1	89	< 2	82	3.40	< 2	< 10	31	< 0.5	< 2	2.77	59	82	8.01	< 10	< 1	0.11	< 10
18488	< 20	< 0.2	< 0.5	118	807	< 1	82	< 2	96	3.21	< 2	< 10	41	< 0.5	< 2	2.82	51	81	5.42	< 10	< 1	0.08	< 10
18489	< 20	0.2	< 0.5	182	582	< 1	76	< 2	108	3.23	< 2	< 10	29	< 0.5	< 2	3.01	83	59	8.75	< 10	< 1	0.05	< 10
18492	< 20	< 0.2	< 0.5	89	884	< 1	59	< 2	112	2.96	< 2	< 10	31	< 0.5	< 2	2.57	47	50	5.77	< 10	< 1	0.09	< 10
18493	< 20	< 0.2	< 0.5	89	829	< 1	51	< 2	75	2.77	< 2	< 10	70	< 0.5	< 2	2.45	38	55	4.81	< 10	< 1	0.17	< 10
18494	< 20	< 0.2	< 0.5	70	784	< 1	47	< 2	72	2.47	2	< 10	127	< 0.5	< 2	2.87	30	76	4.35	< 10	< 1	0.28	< 10
18495	< 20	< 0.2	< 0.5	282	707	< 1	87	< 2	40	2.90	< 2	< 10	120	< 0.5	< 2	3.78	31	90	4.17	< 10	< 1	0.25	< 10
18496	< 20	< 0.2	< 0.5	123	521	< 1	43	< 2	31	1.90	< 2	< 10	58	< 0.5	< 2	2.43	18	87	2.82	< 10	< 1	0.15	< 10
18497	< 20	< 0.2	< 0.5	128	488	< 1	82	< 2	28	2.45	< 2	< 10	85	< 0.5	< 2	3.13	19	102	2.51	< 10	< 1	0.20	< 10
18498	< 20	< 0.2	< 0.5	48	538	2	123	< 2	45	3.47	< 2	< 10	83	< 0.5	< 2	3.40	23	183	3.16	< 10	< 1	0.30	< 10
18499	< 20	< 0.2	< 0.5	49	379	2	89	< 2	45	2.19	4	< 10	106	< 0.5	< 2	2.90	26	169	1.99	< 10	< 1	0.32	< 10
18500	< 20	< 0.2	< 0.5	48	123	2	9	< 2	18	0.48	3	< 10	27	< 0.5	< 2	0.92	3	128	0.88	< 10	< 1	0.05	< 10
18502	< 20	< 0.2	< 0.5	67	573	< 1	88	< 2	32	4.23	< 2	15	91	< 0.5	< 2	3.95	25	124	3.25	< 10	< 1	0.31	< 10
18503	< 20	< 0.2	< 0.5	85	438	< 1	55	< 2	37	3.41	< 2	12	99	< 0.5	< 2	2.74	19	153	3.05	< 10	< 1	0.29	< 10
18504	< 20	< 0.2	< 0.5	128	704	< 1	24	< 2	31	1.71	< 2	< 10	31	< 0.5	< 2	2.21	24	76	4.27	< 10	< 1	0.10	< 10
18505	< 20	< 0.2	< 0.5	73	453	< 1	52	< 2	38	3.50	< 2	13	108	< 0.5	< 2	2.78	20	92	3.18	< 10	< 1	0.32	< 10
18506	< 20	< 0.2	< 0.5	88	705	< 1	18	< 2	38	1.93	< 2	< 10	28	< 0.5	< 2	2.87	21	21	4.67	< 10	< 1	0.11	< 10
18507	< 20	< 0.2	< 0.5	82	984	1	78	< 2	51	3.30	< 2	< 10	80	< 0.5	< 2	5.22	27	359	3.58	< 10	< 1	0.28	< 10



Results

Analyte Symbol	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr
Unit Symbol	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
18301	0.74	0.263	0.019	4.42	2	10	26	0.25	3	< 2	< 10	97	< 10	11	12
18302	0.30	0.154	0.014	6.13	3	3	18	0.07	2	< 2	< 10	26	< 10	8	37
18304	2.68	0.115	0.017	2.99	5	8	8	0.16	3	< 2	< 10	69	< 10	4	6
18305	1.45	0.256	0.018	1.47	4	8	24	0.17	5	< 2	< 10	61	< 10	5	3
18306	2.03	0.222	0.017	0.92	4	9	16	0.17	3	< 2	< 10	67	< 10	5	4
18307	1.78	0.225	0.018	0.58	4	10	27	0.21	2	< 2	< 10	75	< 10	6	3
18308	1.42	0.289	0.019	0.09	< 2	9	43	0.24	2	< 2	< 10	70	< 10	6	2
18309	2.58	0.202	0.020	0.11	3	14	12	0.24	4	< 2	< 10	107	< 10	7	4
18311	2.10	0.177	0.030	0.17	3	11	16	0.20	3	< 2	< 10	83	< 10	6	4
18312	2.29	0.150	0.020	0.14	2	10	11	0.22	2	< 2	< 10	83	< 10	7	4
18313	2.19	0.204	0.018	0.03	2	11	15	0.23	< 1	< 2	< 10	83	< 10	6	3
18314	1.82	0.204	0.018	0.60	2	11	20	0.21	3	< 2	< 10	81	< 10	7	4
18315	1.93	0.285	0.018	0.39	3	14	41	0.24	5	< 2	< 10	100	< 10	8	3
18316	2.33	0.225	0.018	0.05	3	16	22	0.26	4	< 2	< 10	113	< 10	8	4
18317	2.20	0.195	0.021	1.83	4	14	13	0.19	< 1	< 2	< 10	105	< 10	7	7
18319	1.55	0.336	0.022	0.24	< 2	11	41	0.24	3	< 2	< 10	97	< 10	7	3
18320	1.84	0.371	0.021	0.54	< 2	12	44	0.21	3	< 2	< 10	100	< 10	7	4
18321	1.75	0.339	0.023	0.07	2	7	43	0.21	5	< 2	< 10	69	< 10	5	9
18322	1.64	0.191	0.017	0.08	2	6	29	0.18	8	< 2	< 10	58	< 10	6	10
18324	2.34	0.167	0.019	0.95	2	15	49	0.25	4	< 2	< 10	136	< 10	9	6
18325	2.70	0.094	0.024	1.02	3	21	31	0.28	2	< 2	< 10	170	< 10	10	8
18326	1.91	0.086	0.018	2.09	2	17	51	0.23	4	< 2	< 10	104	< 10	9	10
18327	1.23	0.111	0.041	1.24	< 2	10	34	0.18	< 1	< 2	< 10	77	< 10	7	29
18328	0.82	0.107	0.025	0.46	< 2	3	12	0.07	2	< 2	< 10	25	< 10	3	25
18329	1.56	0.296	0.024	0.21	< 2	13	33	0.22	< 1	< 2	< 10	104	< 10	7	9
18331	1.22	0.272	0.022	0.16	< 2	11	33	0.20	2	< 2	< 10	88	< 10	7	7
18332	1.73	0.267	0.029	0.13	< 2	15	19	0.24	1	< 2	< 10	120	< 10	11	8
18333	1.64	0.283	0.030	0.23	2	13	28	0.20	< 1	< 2	< 10	113	< 10	8	5
18334	1.78	0.278	0.025	0.12	< 2	14	22	0.25	4	< 2	< 10	117	< 10	9	5
18335	0.97	0.080	0.041	1.39	2	5	16	0.10	< 1	< 2	< 10	44	< 10	6	28
18336	1.06	0.090	0.052	1.88	< 2	5	11	0.12	1	< 2	< 10	44	< 10	8	37
18337	0.55	0.054	0.026	1.24	< 2	2	12	0.04	< 1	< 2	< 10	13	< 10	3	29
18338	0.33	0.080	0.017	0.44	< 2	< 1	18	0.03	< 1	< 2	< 10	7	< 10	3	23
18341	0.52	0.106	0.024	0.56	< 2	3	15	0.06	< 1	< 2	< 10	20	< 10	4	32
18342	0.72	0.110	0.037	0.80	< 2	4	30	0.10	< 1	< 2	< 10	37	< 10	5	22
18344	1.47	0.275	0.026	0.86	< 2	12	39	0.22	< 1	< 2	< 10	94	< 10	7	16
18345	1.74	0.360	0.024	0.48	< 2	14	37	0.27	3	< 2	< 10	130	< 10	7	7
18346	1.45	0.213	0.025	0.13	< 2	12	18	0.21	2	< 2	< 10	101	< 10	8	4
18347	1.50	0.433	0.023	0.58	< 2	12	55	0.18	4	< 2	< 10	99	< 10	7	3
18348	2.25	0.333	0.023	1.20	3	18	43	0.21	4	< 2	< 10	144	< 10	9	5
18349	2.27	0.122	0.016	2.55	2	12	26	0.15	2	< 2	< 10	111	< 10	12	5
18351	2.36	0.305	0.024	0.54	< 2	18	38	0.24	2	< 2	< 10	153	< 10	10	5
18352	1.76	0.262	0.023	0.26	< 2	13	28	0.23	2	< 2	< 10	113	< 10	8	4
18353	2.00	0.330	0.024	0.31	< 2	15	34	0.23	1	< 2	< 10	130	< 10	9	4
18354	1.20	0.200	0.059	1.15	24	9	96	0.12	3	10	27	76	14	28	33
18355	1.55	0.342	0.024	0.30	2	14	37	0.23	5	< 2	< 10	110	< 10	7	4
18356	1.52	0.374	0.024	0.69	< 2	13	40	0.20	3	< 2	< 10	102	< 10	7	5
18357	2.10	0.220	0.023	0.83	2	15	25	0.23	1	< 2	< 10	134	< 10	9	6
18358	1.59	0.161	0.024	0.29	< 2	12	22	0.21	2	< 2	< 10	108	< 10	7	8

Analyte Symbol	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr
Unit Symbol	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
18361	1.60	0.195	0.027	0.57	< 2	13	18	0.25	< 1	< 2	< 10	125	< 10	8	6
18362	1.70	0.235	0.026	0.40	< 2	14	26	0.26	4	< 2	< 10	130	< 10	9	6
18363	1.47	0.220	0.024	0.50	< 2	11	27	0.22	3	< 2	< 10	97	< 10	7	6
18364	2.03	0.305	0.023	0.19	< 2	14	37	0.24	1	< 2	< 10	115	< 10	8	5
18365	2.25	0.314	0.022	1.03	2	17	43	0.24	4	< 2	< 10	136	< 10	9	6
18366	1.98	0.275	0.024	0.07	3	10	26	0.21	2	< 2	< 10	83	< 10	6	7
18367	1.75	0.350	0.026	0.26	< 2	9	43	0.24	5	< 2	< 10	85	< 10	7	4
18368	1.21	0.199	0.059	1.16	25	9	96	0.12	3	9	28	77	15	28	33
18369	1.86	0.313	0.030	0.67	3	11	34	0.28	3	< 2	< 10	94	< 10	11	7
18371	1.36	0.279	0.026	0.10	< 2	6	37	0.22	2	< 2	< 10	60	< 10	8	6
18372	1.34	0.271	0.020	0.08	< 2	6	39	0.18	< 1	< 2	< 10	61	< 10	6	3
18373	1.79	0.227	0.023	0.32	< 2	9	28	0.24	5	< 2	< 10	73	< 10	8	7
18374	1.69	0.208	0.022	0.06	2	13	28	0.26	4	< 2	< 10	100	< 10	7	7
18375	1.63	0.298	0.023	0.60	< 2	13	36	0.29	1	< 2	< 10	118	< 10	9	5
18376	1.80	0.265	0.023	0.79	< 2	13	29	0.27	3	< 2	< 10	115	< 10	9	5
18377	1.62	0.353	0.026	1.28	< 2	12	40	0.27	3	< 2	< 10	107	< 10	10	5
18378	2.07	0.370	0.027	0.64	2	16	40	0.29	7	< 2	< 10	131	< 10	10	5
18381	2.26	0.262	0.026	0.88	2	17	33	0.30	8	< 2	< 10	150	< 10	11	6
18382	2.19	0.213	0.022	0.99	< 2	15	25	0.28	3	< 2	< 10	125	< 10	10	7
18383	2.76	0.187	0.024	0.63	2	18	21	0.32	3	< 2	< 10	160	< 10	10	6
18384	4.29	0.062	0.020	0.49	3	21	18	0.28	3	< 2	< 10	169	< 10	11	10
18385	4.08	0.077	0.021	0.56	3	22	15	0.26	< 1	< 2	< 10	193	< 10	11	8
18386	2.42	0.143	0.024	0.79	< 2	14	16	0.31	4	< 2	< 10	141	< 10	10	8
18387	1.82	0.208	0.023	0.87	< 2	13	18	0.25	4	< 2	< 10	112	< 10	9	5
18388	1.80	0.353	0.023	0.52	< 2	15	37	0.26	2	< 2	< 10	119	< 10	9	6
18389	1.80	0.262	0.024	0.60	< 2	16	29	0.27	4	< 2	< 10	131	< 10	8	7
18391	1.44	0.114	0.019	0.26	2	11	27	0.19	2	< 2	< 10	92	< 10	6	7
18392	1.91	0.294	0.024	0.31	< 2	18	32	0.26	5	< 2	< 10	148	< 10	9	6
18393	1.70	0.263	0.023	0.49	2	15	27	0.23	4	< 2	< 10	120	< 10	9	7
18394	2.38	0.186	0.022	0.90	< 2	18	27	0.23	4	< 2	< 10	135	< 10	8	8
18395	1.82	0.305	0.020	0.88	3	15	39	0.20	2	< 2	< 10	119	< 10	8	6
18396	1.91	0.269	0.024	0.91	2	17	26	0.28	4	< 2	< 10	141	< 10	9	6
18397	1.50	0.355	0.024	2.14	< 2	13	34	0.25	< 1	< 2	< 10	120	< 10	9	6
18398	1.94	0.324	0.024	0.91	3	16	26	0.28	< 1	< 2	< 10	131	< 10	10	5
18401	1.65	0.419	0.024	1.07	3	14	42	0.22	1	< 2	< 10	113	< 10	9	4
18402	1.92	0.444	0.026	0.51	3	16	33	0.25	2	< 2	< 10	142	< 10	9	4
18403	1.69	0.387	0.023	0.33	< 2	13	38	0.23	3	< 2	< 10	108	< 10	8	3
18404	1.96	0.386	0.025	0.94	< 2	17	35	0.35	2	< 2	< 10	158	< 10	12	6
18405	2.01	0.384	0.029	0.93	2	17	38	0.48	3	< 2	< 10	204	< 10	14	5
18406	2.12	0.361	0.029	1.20	3	20	45	0.46	2	< 2	< 10	217	< 10	13	8
18407	2.18	0.349	0.030	1.17	< 2	19	43	0.48	3	< 2	< 10	226	< 10	13	7
18408	1.84	0.449	0.027	0.97	2	14	46	0.40	< 1	< 2	< 10	146	< 10	11	5
18409	1.64	0.319	0.024	0.97	2	11	36	0.21	< 1	< 2	< 10	113	< 10	7	4
18411	1.63	0.356	0.020	0.18	2	12	38	0.29	1	< 2	< 10	102	< 10	8	3
18412	1.70	0.388	0.026	2.69	3	12	50	0.19	1	< 2	< 10	95	< 10	9	9
18413	2.07	0.314	0.023	0.90	3	14	34	0.23	2	< 2	< 10	118	< 10	9	5
18414	1.94	0.371	0.023	0.64	< 2	14	42	0.23	2	< 2	< 10	124	< 10	8	4
18415	2.17	0.438	0.024	0.26	3	16	41	0.26	< 1	< 2	< 10	139	< 10	8	4
18416	1.93	0.520	0.024	0.33	3	17	46	0.26	4	< 2	< 10	139	< 10	9	4
18417	2.05	0.392	0.024	0.21	2	19	37	0.28	2	< 2	< 10	147	< 10	10	4

Analyte Symbol	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr
Unit Symbol	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
18418	1.88	0.204	0.028	0.08	< 2	14	15	0.31	2	< 2	< 10	139	< 10	9	5
18421	1.77	0.205	0.028	0.23	< 2	15	17	0.23	< 1	< 2	< 10	144	< 10	9	4
18422	1.74	0.316	0.026	0.41	< 2	13	34	0.32	2	< 2	< 10	116	< 10	12	4
18423	1.64	0.421	0.025	0.09	< 2	13	55	0.20	5	< 2	< 10	103	< 10	7	3
18424	2.05	0.330	0.023	1.16	3	15	34	0.21	< 1	< 2	< 10	120	< 10	9	5
18425	2.00	0.361	0.022	0.37	2	16	40	0.24	< 1	< 2	< 10	134	< 10	10	4
18426	1.75	0.411	0.026	0.31	2	14	45	0.27	< 1	< 2	< 10	136	< 10	8	4
18427	1.64	0.344	0.033	0.38	< 2	14	42	0.34	2	< 2	< 10	160	< 10	10	6
18428	1.24	0.234	0.026	0.27	< 2	9	34	0.29	6	< 2	< 10	101	< 10	8	5
18429	1.46	0.287	0.024	0.15	< 2	12	36	0.28	< 1	< 2	< 10	116	< 10	7	4
18431	2.01	0.430	0.023	0.32	2	16	36	0.26	< 1	< 2	< 10	130	< 10	9	5
18432	1.47	0.337	0.021	0.21	< 2	13	30	0.25	2	< 2	< 10	94	< 10	9	3
18433	1.43	0.367	0.021	0.08	< 2	11	34	0.28	3	< 2	< 10	88	< 10	8	3
18434	1.59	0.478	0.021	0.04	2	12	43	0.26	2	< 2	< 10	89	< 10	7	3
18435	1.99	0.324	0.021	0.54	2	13	32	0.23	2	< 2	< 10	99	< 10	8	4
18436	2.11	0.344	0.020	0.32	2	15	29	0.25	1	< 2	< 10	111	< 10	9	4
18437	2.04	0.290	0.021	0.22	< 2	14	19	0.25	3	< 2	< 10	103	< 10	10	3
18438	2.79	0.303	0.019	0.24	3	17	16	0.23	< 1	< 2	< 10	122	< 10	9	3
18441	1.69	0.429	0.020	0.18	3	13	46	0.25	2	< 2	< 10	95	< 10	8	3
18442	2.23	0.364	0.021	0.31	2	15	36	0.23	< 1	< 2	< 10	110	< 10	9	3
18443	1.47	0.455	0.021	0.33	2	10	49	0.23	2	< 2	< 10	83	< 10	8	2
18444	2.12	0.480	0.025	0.38	< 2	16	45	0.25	3	< 2	< 10	127	< 10	9	3
18445	2.03	0.388	0.021	0.18	3	15	30	0.23	6	< 2	< 10	118	< 10	9	3
18446	1.70	0.385	0.022	0.27	2	14	32	0.21	2	< 2	< 10	107	< 10	8	3
18447	1.68	0.365	0.023	0.14	< 2	13	30	0.22	3	< 2	< 10	107	< 10	8	3
18448	1.92	0.409	0.021	0.86	3	15	33	0.21	3	< 2	< 10	116	< 10	9	4
18449	1.38	0.502	0.024	0.25	< 2	10	51	0.21	2	< 2	< 10	91	< 10	6	2
18451	1.40	0.568	0.024	0.61	< 2	9	50	0.24	< 1	< 2	< 10	90	< 10	6	3
18452	2.29	0.298	0.023	3.68	3	12	25	0.35	3	< 2	< 10	130	< 10	11	5
18453	1.43	0.330	0.020	4.35	3	16	36	0.30	2	< 2	< 10	127	< 10	12	6
18454	1.67	0.226	0.023	6.23	4	18	25	0.35	4	< 2	< 10	144	< 10	11	8
18455	1.65	0.408	0.026	3.19	2	10	37	0.42	6	< 2	< 10	128	< 10	11	6
18456	1.99	0.283	0.025	3.27	3	15	28	0.31	3	< 2	< 10	131	< 10	11	10
18457	1.63	0.473	0.024	2.78	3	13	37	0.24	4	< 2	< 10	113	< 10	8	8
18458	1.83	0.347	0.026	2.33	< 2	12	26	0.23	3	< 2	< 10	116	< 10	7	8
18461	2.09	0.324	0.025	0.96	< 2	18	23	0.29	2	< 2	< 10	154	< 10	9	7
18462	1.99	0.285	0.025	0.58	3	16	23	0.25	3	< 2	< 10	142	< 10	9	4
18463	1.70	0.348	0.028	0.39	< 2	15	26	0.24	7	< 2	< 10	131	< 10	10	3
18464	2.05	0.270	0.024	0.63	3	17	24	0.22	3	< 2	< 10	143	< 10	9	5
18465	1.68	0.238	0.024	1.05	< 2	13	23	0.22	2	< 2	< 10	118	< 10	8	6
18466	1.60	0.308	0.026	0.61	< 2	12	20	0.19	3	< 2	< 10	109	< 10	8	4
18467	1.94	0.508	0.025	0.73	< 2	11	38	0.18	< 1	< 2	< 10	121	< 10	6	3
18468	2.03	0.248	0.024	3.07	3	11	22	0.20	2	< 2	< 10	110	< 10	6	9
18469	1.77	0.330	0.025	2.53	< 2	11	26	0.20	2	< 2	< 10	121	< 10	7	7
18471	1.74	0.223	0.023	3.53	3	13	19	0.19	4	< 2	< 10	112	< 10	9	7
18472	2.34	0.282	0.026	0.55	2	16	22	0.22	< 1	< 2	< 10	135	< 10	11	5
18473	1.89	0.392	0.024	0.15	< 2	13	37	0.21	< 1	< 2	< 10	118	< 10	7	3
18474	2.01	0.323	0.024	1.28	2	14	32	0.25	< 1	< 2	< 10	123	< 10	9	6
18475	1.64	0.220	0.040	2.28	3	13	38	0.27	4	< 2	< 10	104	< 10	10	17
18476	1.56	0.260	0.018	5.08	4	10	37	0.17	2	< 2	< 10	91	< 10	7	11

Analyte Symbol	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr
Unit Symbol	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.01	0.001	0.001	0.01	< 2	1	1	0.01	1	2	10	1	10	1	1
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
18477	1.89	0.342	0.020	0.46	2	11	39	0.19	3	< 2	< 10	88	< 10	7	3
18478	1.45	0.398	0.022	0.07	< 2	10	43	0.15	4	< 2	< 10	80	< 10	6	2
18479	1.52	0.406	0.021	0.11	< 2	11	49	0.22	2	< 2	< 10	83	< 10	6	3
18480	1.67	0.375	0.021	0.13	< 2	11	46	0.23	2	< 2	< 10	87	< 10	7	3
18482	1.58	0.347	0.021	0.08	< 2	10	40	0.21	< 1	< 2	< 10	78	< 10	6	2
18483	1.82	0.536	0.024	0.17	< 2	14	59	0.24	< 1	< 2	< 10	116	< 10	8	4
18484	2.04	0.430	0.024	0.39	2	15	52	0.24	3	< 2	< 10	125	< 10	8	4
18485	1.83	0.419	0.022	0.24	< 2	15	54	0.23	3	< 2	< 10	123	< 10	7	4
18486	1.73	0.500	0.025	1.09	3	16	51	0.23	3	< 2	< 10	124	< 10	9	6
18487	1.32	0.500	0.022	2.52	< 2	11	58	0.20	< 1	< 2	< 10	95	< 10	8	6
18488	1.21	0.559	0.024	2.40	3	11	61	0.23	4	< 2	< 10	94	< 10	9	6
18489	0.91	0.567	0.023	3.62	2	10	69	0.21	< 1	< 2	< 10	78	< 10	8	7
18492	1.31	0.450	0.024	2.00	< 2	11	53	0.17	2	< 2	< 10	92	< 10	8	6
18493	1.89	0.331	0.025	0.45	2	17	23	0.24	4	< 2	< 10	136	< 10	9	4
18494	1.69	0.318	0.024	0.59	< 2	13	28	0.22	2	< 2	< 10	108	< 10	8	8
18495	1.67	0.377	0.032	0.63	< 2	11	36	0.27	3	< 2	< 10	110	< 10	10	6
18496	1.73	0.200	0.027	0.06	< 2	12	15	0.21	4	< 2	< 10	84	< 10	8	4
18497	1.48	0.233	0.021	0.09	< 2	7	28	0.21	1	< 2	< 10	67	< 10	6	4
18498	2.15	0.292	0.017	0.04	< 2	7	30	0.17	2	< 2	< 10	67	< 10	4	5
18499	0.90	0.219	0.028	0.22	< 2	12	28	0.25	4	< 2	< 10	101	< 10	8	10
18500	0.24	0.114	0.016	0.25	< 2	2	11	0.06	< 1	< 2	< 10	15	< 10	3	10
18502	1.73	0.399	0.021	0.20	< 2	10	51	0.22	2	< 2	< 10	95	< 10	7	2
18503	1.69	0.312	0.024	0.14	< 2	9	39	0.21	4	< 2	< 10	84	< 10	6	11
18504	1.74	0.235	0.049	0.09	< 2	17	12	0.27	3	< 2	< 10	140	< 10	19	11
18505	1.67	0.339	0.025	0.13	< 2	10	39	0.21	1	< 2	< 10	90	< 10	7	10
18506	1.48	0.270	0.049	0.03	< 2	17	11	0.28	5	< 2	< 10	183	< 10	22	8
18507	1.46	0.476	0.027	0.46	3	10	54	0.22	2	< 2	< 10	88	< 10	9	8

QC

Analyte Symbol	Th	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co	Cr	Fe	Ga	Hg	K	La
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm
Lower Limit	20	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1	1	0.01	10	1	0.01	10
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-4 Meas	< 20	3.3	< 0.5	6330	142	315	36	39	68	2.75	103	< 10	37	1.4	21	0.93	13	53	2.88	10	< 1	1.86	53
GXR-4 Cert	22.5	4.0	0.860	6520	155	310	42.0	52.0	73.0	7.20	98.0	4.50	1640	1.90	19.0	1.01	14.8	64.0	3.09	20.0	0.110	4.01	64.5
GXR-4 Meas	< 20	3.4	< 0.5	6450	141	319	37	41	69	2.77	105	< 10	38	1.4	20	0.94	13	55	2.92	10	< 1	1.89	52
GXR-4 Cert	22.5	4.0	0.860	6520	155	310	42.0	52.0	73.0	7.20	98.0	4.50	1640	1.90	19.0	1.01	14.8	64.0	3.09	20.0	0.110	4.01	64.5
GXR-6 Meas	< 20	0.3	< 0.5	70	1070	3	22	88	123	7.23	244	< 10	1110	0.9	< 2	0.14	13	79	5.30	20	< 1	1.26	< 10
GXR-6 Cert	5.30	1.30	1.00	66.0	1010	2.40	27.0	101	118	17.7	330	9.80	1900	1.40	0.290	0.180	13.8	96.0	5.58	35.0	0.0880	1.87	13.9
GXR-6 Meas	< 20	0.3	< 0.5	72	1100	2	23	93	127	7.39	237	< 10	1140	0.9	< 2	0.15	13	81	5.45	20	2	1.29	< 10
GXR-6 Cert	5.30	1.30	1.00	66.0	1010	2.40	27.0	101	118	17.7	330	9.80	1900	1.40	0.290	0.180	13.8	96.0	5.58	35.0	0.0880	1.87	13.9
SAR-M (U.S.G.S.) Meas	< 20	3.2	5.5	346	4930	13	41	1020	1010	1.22	43		242	1.1	2	0.31	11	93	2.76	< 10		0.32	52
SAR-M (U.S.G.S.) Cert	17.2	3.84	5.27		5220	13.1	41.5	982	930.0	6.30	38.8		801	2.20	1.94	0.81	10.70	79.7	2.99	17		2.94	57.4
SAR-M (U.S.G.S.) Meas	< 20	3.8	5.3	339	4710	14	41	1000	997	1.26	43		253	1.1	< 2	0.33	10	87	2.74	< 10		0.33	53
SAR-M (U.S.G.S.) Cert	17.2	3.84	5.27		5220	13.1	41.5	982	930.0	6.30	38.8		801	2.20	1.94	0.81	10.70	79.7	2.99	17		2.94	57.4
18311 Orig	< 20	< 0.2	< 0.5	54	592	< 1	80	< 2	34	1.91	< 2	< 10	37	< 0.5	< 2	3.01	24	316	3.40	< 10	< 1	0.12	< 10
18311 Dup	< 20	< 0.2	< 0.5	54	809	< 1	82	< 2	34	1.95	< 2	< 10	39	< 0.5	< 2	3.08	25	322	3.42	< 10	< 1	0.12	< 10
18327 Orig	< 20	0.3	< 0.5	75	1140	3	119	5	200	1.34	117	< 10	43	< 0.5	< 2	5.13	36	142	2.83	< 10	< 1	0.17	11
18327 Dup	< 20	0.3	< 0.5	77	1150	2	118	5	202	1.36	119	< 10	42	< 0.5	< 2	5.19	35	145	2.87	< 10	< 1	0.18	11
18344 Orig	< 20	< 0.2	< 0.5	78	827	1	87	4	138	2.88	8	< 10	142	< 0.5	< 2	2.44	25	178	3.44	< 10	< 1	1.10	< 10
18344 Dup	< 20	< 0.2	< 0.5	77	828	1	85	3	138	2.70	6	< 10	150	< 0.5	< 2	2.44	24	178	3.42	< 10	< 1	1.10	< 10
18361 Orig	< 20	< 0.2	< 0.5	164	649	< 1	44	< 2	84	1.72	3	< 10	39	< 0.5	< 2	1.78	41	68	3.22	< 10	< 1	0.09	< 10
18361 Dup	< 20	< 0.2	< 0.5	171	660	< 1	45	< 2	87	1.76	3	< 10	41	< 0.5	< 2	1.84	41	70	3.29	< 10	< 1	0.09	< 10
18387 Orig	< 20	< 0.2	< 0.5	161	931	< 1	45	2	86	2.07	2	< 10	37	< 0.5	< 2	2.77	35	85	4.16	< 10	< 1	0.10	< 10
18387 Dup	< 20	< 0.2	< 0.5	162	933	< 1	45	< 2	85	2.08	2	< 10	36	< 0.5	< 2	2.78	35	85	4.17	< 10	< 1	0.10	< 10
18404 Orig	< 20	< 0.2	< 0.5	97	870	< 1	46	< 2	82	3.08	5	< 10	102	< 0.5	< 2	3.09	45	67	5.15	10	< 1	0.40	< 10
18404 Dup	< 20	< 0.2	< 0.5	97	861	< 1	45	< 2	81	3.04	3	< 10	85	< 0.5	< 2	3.05	44	65	5.08	10	< 1	0.40	< 10
18418 Orig	< 20	< 0.2	< 0.5	74	815	< 1	37	< 2	61	1.87	9	< 10	84	< 0.5	< 2	1.76	38	66	3.40	< 10	< 1	0.09	< 10
18418 Dup	< 20	< 0.2	< 0.5	72	595	< 1	36	< 2	59	1.80	7	< 10	83	< 0.5	< 2	1.70	35	63	3.34	< 10	< 1	0.09	< 10
18435 Orig	< 20	< 0.2	< 0.5	161	800	< 1	49	< 2	58	2.51	6	< 10	51	< 0.5	< 2	3.29	33	155	3.57	< 10	< 1	0.08	< 10
18435 Dup	< 20	< 0.2	< 0.5	178	823	< 1	54	< 2	64	2.78	7	< 10	56	< 0.5	< 2	3.64	35	177	4.07	< 10	< 1	0.09	< 10
18456 Orig	< 20	< 0.2	< 0.5	136	695	< 1	59	4	162	3.13	< 2	< 10	25	< 0.5	< 2	1.72	46	111	6.97	10	< 1	0.17	< 10
18456 Dup	< 20	0.2	< 0.5	136	669	< 1	57	3	162	3.08	< 2	< 10	23	< 0.5	< 2	1.70	46	111	6.82	10	< 1	0.17	< 10
18473 Orig	< 20	< 0.2	< 0.5	120	744	< 1	33	< 2	52	3.24	3	< 10	47	< 0.5	< 2	3.08	28	59	3.90	< 10	< 1	0.11	< 10
18473 Dup	< 20	< 0.2	< 0.5	127	741	1	32	< 2	52	3.22	6	< 10	47	< 0.5	< 2	3.04	29	60	3.89	< 10	< 1	0.10	< 10
18487 Orig	< 20	< 0.2	< 0.5	151	699	< 1	71	< 2	95	3.46	< 2	< 10	26	< 0.5	< 2	2.75	67	86	6.16	< 10	< 1	0.12	< 10
18487 Dup	< 20	< 0.2	< 0.5	145	688	< 1	87	< 2	89	3.34	< 2	< 10	35	< 0.5	< 2	2.80	54	78	5.85	< 10	< 1	0.11	< 10
18504 Orig	< 20	< 0.2	< 0.5	127	712	< 1	24	< 2	31	1.72	< 2	< 10	32	< 0.5	< 2	2.22	24	74	4.30	< 10	< 1	0.10	< 10
18504 Dup	< 20	< 0.2	< 0.5	128	696	< 1	24	< 2	31	1.71	< 2	< 10	30	< 0.5	< 2	2.19	24	77	4.25	< 10	< 1	0.10	< 10
Method Blank	< 20	< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	10	< 0.5	< 2	< 0.01	< 1	< 1	< 0.01	< 10	< 1	< 0.01	< 10
Method Blank	< 20	< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	10	< 0.5	< 2	< 0.01	< 1	< 1	< 0.01	< 10	< 1	< 0.01	< 10
Method Blank	< 20	< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	11	< 0.5	< 2	< 0.01	< 1	< 1	< 0.01	< 10	< 1	< 0.01	< 10

QC

Analyte Symbol	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr
Unit Symbol	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-4 Meas	1.61	0.138	0.114	1.69	5	6	76	0.14	6	< 2	< 10	77	16	12	10
GXR-4 Cert	1.66	0.564	0.120	1.77	4.80	7.70	221	0.29	0.970	3.20	6.20	87.0	30.8	14.0	186
GXR-4 Meas	1.63	0.136	0.117	1.70	4	7	78	0.14	1	2	< 10	79	15	12	10
GXR-4 Cert	1.66	0.564	0.120	1.77	4.80	7.70	221	0.29	0.970	3.20	6.20	87.0	30.8	14.0	186
GXR-6 Meas	0.41	0.088	0.031	0.01	3	18	31		3	< 2	< 10	174	< 10	5	14
GXR-6 Cert	0.609	0.104	0.0350	0.0160	3.60	27.6	35.0		0.0180	2.20	1.54	186	1.90	14.0	110
GXR-6 Meas	0.42	0.087	0.032	0.02	4	18	32		< 1	< 2	< 10	177	< 10	5	12
GXR-6 Cert	0.609	0.104	0.0350	0.0160	3.60	27.6	35.0		0.0180	2.20	1.54	186	1.90	14.0	110
SAR-M (U.S.G.S.) Meas	0.35	0.038	0.060		5	3	35	0.06	4	< 2	< 10	37	< 10	22	
SAR-M (U.S.G.S.) Cert	0.50	1.140	0.07		6.0	7.83	151	0.38	0.96	2.7	3.57	67.2	9.78	28.00	
SAR-M (U.S.G.S.) Meas	0.36	0.040	0.061		5	4	35	0.06	3	< 2	< 10	38	< 10	24	
SAR-M (U.S.G.S.) Cert	0.50	1.140	0.07		6.0	7.83	151	0.38	0.96	2.7	3.57	67.2	9.78	28.00	
18311 Orig	2.07	0.175	0.030	0.17	3	11	16	0.20	4	< 2	< 10	82	< 10	6	3
18311 Dup	2.12	0.180	0.030	0.17	3	12	17	0.21	3	< 2	< 10	84	< 10	7	4
18327 Orig	1.22	0.113	0.041	1.24	< 2	10	34	0.18	1	< 2	< 10	77	< 10	7	29
18327 Dup	1.24	0.110	0.042	1.24	2	10	34	0.18	< 1	< 2	< 10	77	< 10	7	29
18344 Orig	1.47	0.274	0.026	0.87	< 2	12	39	0.22	2	< 2	< 10	94	< 10	7	16
18344 Dup	1.47	0.275	0.026	0.86	< 2	12	39	0.22	< 1	< 2	< 10	94	< 10	7	16
18361 Orig	1.58	0.190	0.027	0.57	< 2	13	17	0.25	5	< 2	< 10	123	< 10	8	6
18361 Dup	1.62	0.199	0.027	0.58	< 2	13	18	0.25	< 1	< 2	< 10	126	< 10	8	6
18387 Orig	1.82	0.210	0.023	0.87	< 2	13	18	0.25	4	< 2	< 10	112	< 10	9	6
18387 Dup	1.82	0.206	0.023	0.86	2	13	17	0.25	4	< 2	< 10	112	< 10	9	5
18404 Orig	1.98	0.390	0.025	0.95	< 2	17	35	0.35	3	< 2	< 10	160	< 10	12	6
18404 Dup	1.94	0.382	0.024	0.92	2	17	35	0.35	1	< 2	< 10	157	< 10	11	6
18418 Orig	1.72	0.204	0.028	0.08	2	14	16	0.31	3	< 2	< 10	140	< 10	9	5
18418 Dup	1.65	0.204	0.028	0.08	< 2	14	15	0.30	1	< 2	< 10	137	< 10	9	5
18435 Orig	1.87	0.309	0.020	0.51	2	12	31	0.21	3	< 2	< 10	93	< 10	8	3
18435 Dup	2.12	0.340	0.021	0.56	3	14	34	0.25	1	< 2	< 10	105	< 10	8	4
18456 Orig	2.00	0.288	0.026	3.31	3	15	28	0.31	3	< 2	< 10	131	< 10	11	10
18456 Dup	1.97	0.279	0.025	3.23	3	15	28	0.31	2	< 2	< 10	131	< 10	11	10
18473 Orig	1.90	0.393	0.024	0.15	< 2	13	37	0.22	< 1	< 2	< 10	118	< 10	7	3
18473 Dup	1.89	0.391	0.024	0.15	3	13	37	0.21	< 1	< 2	< 10	117	< 10	7	3
18487 Orig	1.36	0.508	0.023	2.51	< 2	12	58	0.20	< 1	< 2	< 10	97	< 10	8	6
18487 Dup	1.27	0.492	0.022	2.54	3	11	57	0.19	2	< 2	< 10	92	< 10	7	6
18504 Orig	1.75	0.238	0.049	0.09	2	17	12	0.28	4	< 2	< 10	140	< 10	19	11
18504 Dup	1.73	0.233	0.050	0.09	< 2	17	12	0.26	1	< 2	< 10	139	< 10	19	10
Method Blank	< 0.01	0.013	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1	< 2	< 10	< 1	< 10	< 1	< 1
Method Blank	< 0.01	0.014	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1	< 2	< 10	< 1	< 10	< 1	< 1
Method Blank	< 0.01	0.015	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1	< 2	< 10	< 1	< 10	< 1	< 1



**Date Submitted:** 12-Jan-15  
**Invoice No.:** A15-00195  
**Invoice Date:** 15-Jan-15  
**Your Reference:** Mistango14-1745

Swastika Labs  
1 Cameron Ave  
P.O. Box 10  
Swastika ON P0K 1T0  
Canada

ATTN: Lydia Deschenes

### CERTIFICATE OF ANALYSIS

1 Pulp samples were submitted for analysis.

The following analytical package was requested:

Code 4B (1-10) Major Elements Fusion ICP(WRA)

REPORT **A15-00195**

This report may be reproduced without our consent. If only selected portions of the report are reproduced, permission must be obtained. If no instructions were given at time of sample submittal regarding excess material, it will be discarded within 90 days of this report. Our liability is limited solely to the analytical cost of these analyses. Test results are representative only of material submitted for analysis.

Notes:

Total includes all elements in % oxide to the left of total.

CERTIFIED BY:

A handwritten signature in black ink, appearing to read "Emmanuel Esemé".

Emmanuel Esemé, Ph.D.  
Quality Control

ACTIVATION LABORATORIES LTD.  
41 Bittern Street, Ancaster, Ontario, Canada, L9G 4V5  
TELEPHONE +905 648-9611 or +1.888.228.5227 FAX +1.905.648.9613  
E-MAIL Ancaster@actlabs.com ACTLABS GROUP WEBSITE www.actlabs.com



Results

Analyte Symbol	SiO2	Al2O3	Fe2O3(T)	MnO	MgO	CaO	Na2O	K2O	TiO2	P2O5	LOI	Total	Ba	Sr	Y	Sc	Zr	Be	V	
Unit Symbol	%	%	%	%	%	%	%	%	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
Lower Limit	0.01	0.01	0.01	0.001	0.01	0.01	0.01	0.01	0.001	0.01		0.01	2	2	1	1	2	1	5	
Method Code	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP
SK-14-05-001	52.49	13.05	12.07	0.248	7.55	10.89	1.59	0.52	0.825	0.07	1.46	100.8	108	119	15	42	52	< 1	283	



QC

Analyte Symbol	SiO2	Al2O3	Fe2O3(T )	MnO	MgO	CaO	Na2O	K2O	TiO2	P2O5	LOI	Total	Ba	Sr	Y	Sc	Zr	Be	V
Unit Symbol	%	%	%	%	%	%	%	%	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.01	0.01	0.01	0.001	0.01	0.01	0.01	0.01	0.001	0.01		0.01	2	2	1	1	2	1	5
Method Code	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP
NIST 694 Meas	11.08	1.87	0.73	0.013	0.34	42.53	0.88	0.54	0.117	30.16									1643
NIST 694 Cert	11.2	1.80	0.790	0.0116	0.330	43.6	0.860	0.510	0.110	30.2									1740
DNC-1 Meas	46.84	18.78	9.88	0.145	10.14	11.48	1.93	0.22	0.485	0.06			110	148	17	31	38		180
DNC-1 Cert	47.15	18.34	9.97	0.150	10.13	11.49	1.890	0.234	0.480	0.070			118	144.0	18.0	31	38		148
GBW 07113 Meas	72.18	12.75	3.27	0.143	0.15	0.81	2.39	5.38	0.283	0.04			493	41	45	5	401	4	6
GBW 07113 Cert	72.8	13.0	3.21	0.140	0.180	0.590	2.57	5.43	0.300	0.0500			508	43.0	43.0	5.00	403	4.00	5.00
W-2a Meas	52.81	15.30	10.87	0.166	8.29	11.09	2.25	0.84	1.084	0.16			181	200	21	38	89	< 1	286
W-2a Cert	52.4	15.4	10.7	0.163	8.37	10.9	2.14	0.826	1.06	0.130			182	190	24.0	36.0	84.0	1.30	282
SY-4 Meas	49.64	20.82	6.12	0.107	0.51	8.15	7.00	1.88	0.290	0.13			346	1192	117	1	524	3	10
SY-4 Cert	49.9	20.89	6.21	0.108	0.54	8.05	7.10	1.86	0.287	0.131			340	1191	119	1.1	517	2.6	8.0
BIR-1a Meas	47.54	15.67	11.53	0.172	9.56	13.70	1.80	0.02	0.983	0.02			13	110	16	43	16	< 1	348
BIR-1a Cert	47.96	15.50	11.30	0.175	9.700	13.30	1.82	0.030	0.96	0.021			6	110	16	44	18	0.58	310
SK-14-05-001 Orig	52.32	13.32	11.95	0.247	7.48	10.83	1.59	0.53	0.821	0.07	1.46	100.8	108	123	15	42	53	< 1	283
SK-14-05-001 Dup	52.67	12.78	12.19	0.246	7.63	10.95	1.58	0.52	0.829	0.07	1.46	100.9	107	116	15	41	51	< 1	283